

### Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the Application.

### Listing of Claims:

1. (Currently amended) ~~A method for efficiently and economically operating a~~ light hydrocarbon gas liquefaction process for the liquefaction of selected quantities of light hydrocarbon gas, said process including a light hydrocarbon gas liquefaction launch train to liquefy an initial amount of light hydrocarbon gas and one or more optional subsequent expansion phases to said light hydrocarbon gas liquefaction launch train to liquefy additional selected quantities of light hydrocarbon gas up to a selected maximum quantity of light hydrocarbon gas for the process, the ~~method~~ process comprising:

a) constructing the light hydrocarbon gas liquefaction launch train for the liquefaction of the selected initial quantity amount of light hydrocarbon gas, the launch train including facilities for light hydrocarbon gas pretreatment to remove at least one of acid gases, mercury, and water; ~~[[,]]~~ facilities for refrigerant compression; ~~[[,]]~~ facilities for cryogenic heat exchange; ~~[[,]]~~ access services; ~~[[,]]~~ facilities for light hydrocarbon gas liquefaction; and facilities for liquefied light hydrocarbon gas product storage and shipping;

b) positioning at least a portion of the facilities in the launch train for shared use by the launch train and ~~any~~ one or more subsequent optional modular expansion phases for liquefaction of up to the selected maximum quantity of light hydrocarbon gas ~~to said launch train;~~

c) constructing at least a portion of the launch train facilities for shared use by modular expansion, as required by the addition of one or more subsequent optional expansion phases to the launch train, up to ~~the~~ a maximum capacity as required to liquefy the selected maximum quantity of light hydrocarbon gas ~~for the process~~, the shared use facilities of the launch train being designed at a size sufficient to liquefy the selected maximum quantity of light hydrocarbon gas ~~for the process either in the launch train as constructed or as constructed in the launch train and~~ expanded in the one or more optional expansion phases to the required capacity; and

d) processing light hydrocarbon gas in the launch train to produce liquefied light hydrocarbon gas.

2. (Currently amended) The ~~method~~ process of claim 1 further comprising the following steps:

e) constructing one or more expansion phases to the launch train to increase the capacity of the launch train as required to liquefy additional selected quantities of light hydrocarbon gas up to the selected maximum quantity of light hydrocarbon gas for the process, said expansion phases being capable of producing liquefied light hydrocarbon gas by use of the shared use facilities in the launch train as constructed ~~in the launch train or as constructed in the launch train~~ and expanded in the one or more expansion phases up to the required capacity; and

f) processing light hydrocarbon gas into liquefied light hydrocarbon gas using the launch train and the one or more expansion phases employing the shared use facilities.

3. (Currently amended) The ~~method~~ process of claim 1 wherein the shared use facilities include acid gas removal equipment.

4. (Currently amended) The ~~method~~ process of claim 1 wherein the shared use facilities include mercury removal equipment.

5. (Currently amended) The ~~method~~ process of claim 1 wherein the shared use facilities include dehydration equipment.

6. (Currently amended) The ~~method~~ process of claim 1 wherein the shared use facilities include refrigerant compression equipment and cryogenic heat exchange equipment.

7. (Currently amended) ~~A method for efficiently and economically operating a~~ light hydrocarbon gas liquefaction process for the liquefaction of selected quantities of light hydrocarbon gas, said process including a light hydrocarbon gas liquefaction launch train to liquefy an initial amount of light hydrocarbon gas and one or more subsequent expansion phases to said hydrocarbon gas liquefaction launch train to liquefy additional selected quantities of light hydrocarbon gas up to a selected maximum quantity of light hydrocarbon gas for the process, the ~~method~~ process comprising:

a) constructing the light hydrocarbon gas liquefaction launch train for the liquefaction of the ~~selected~~ initial ~~quantity~~ amount of light hydrocarbon gas, the launch train including facilities for light hydrocarbon gas pretreatment to remove at least one of acid gases, mercury, and water; ~~[[,]]~~ facilities for refrigerant compression; ~~[[,]]~~ facilities for cryogenic heat exchange; ~~[[,]]~~ access services; ~~[[,]]~~ facilities for light hydrocarbon gas liquefaction; ~~[[,]]~~ and facilities for liquefied light hydrocarbon gas product storage and shipping;

b) positioning and sizing at least a portion of the facilities in the launch train for shared use by the launch train and subsequent modular expansion phases ~~to said launch train~~;

c) constructing at least a portion of the launch train facilities for shared use by modular expansion, as required by the addition of one or more subsequent expansion phases to the launch train, up to the a maximum capacity as required to liquefy the selected maximum quantity of light hydrocarbon gas ~~for the process~~, the shared use facilities of the launch train being designed at a size sufficient to liquefy the selected maximum quantity of light hydrocarbon gas ~~for the process~~ either in the launch train as constructed ~~or as constructed in the launch train~~ and expanded in the one or more expansion phases to required capacity;

d) processing light hydrocarbon gas in the launch train to produce liquefied light hydrocarbon gas;

e) constructing one or more expansion phases to the launch train to increase the capacity of the launch train as required to liquefy additional selected quantities of light hydrocarbon gas up to the selected maximum quantity of light hydrocarbon gas for the process, said expansion phases being capable of producing liquefied light hydrocarbon gas by use of the shared use facilities in the launch train as constructed ~~in the launch train or as constructed in the launch train~~ and expanded in the one or more expansion phases up to the required capacity; and

f) processing light hydrocarbon gas into liquefied light hydrocarbon gas using the launch train and the one or more expansion phases employing the shared use facilities.

8. (Currently amended) The ~~method~~ process of claim 7 wherein the shared use facilities include acid gas removal facilities.

9. (Currently amended) The ~~method~~ process of claim 7 wherein the shared use facilities include mercury removal facilities.

10. (currently amended) The ~~method~~ process of claim 7 wherein the shared use facilities include dehydration facilities.

11. (Currently amended) The ~~method~~ process of claim 7 wherein the shared use facilities include refrigerant compression equipment and cryogenic liquefaction facilities.

12. (Currently amended) A method for designing an efficient and economical light hydrocarbon gas liquefaction process for the liquefaction of selected quantities of light hydrocarbon gas in an initial ~~launch~~ light hydrocarbon gas liquefaction launch train and one or more optional subsequent expansion phases to said light hydrocarbon gas liquefaction launch

train to liquefy additional selected quantities of light hydrocarbon gas up to a selected maximum quantity of light hydrocarbon gas for the process, the method comprising:

a) designing the light hydrocarbon gas liquefaction launch train for the liquefaction of the selected initial quantity of light hydrocarbon gas, the launch train including facilities for light hydrocarbon gas pretreatment to remove at least one of acid gases, mercury, and water; [[,]] facilities for refrigerant compression; [[,]] facilities for cryogenic heat exchange; [[,]] access services; [[,]] facilities for light hydrocarbon gas liquefaction; [[,]] and facilities for liquefied light hydrocarbon gas product storage and shipping;

b) designing and sizing at least a portion of the facilities in the launch train for shared use by the launch train and any subsequent optional modular expansion phases to said launch train; and,

c) designing and sizing at least a portion of the launch train facilities for shared use by modular expansion, as required by the addition of one or more subsequent optional expansion phases to the launch train, up to ~~the~~ a maximum capacity as required to liquefy the selected maximum quantity of light hydrocarbon gas for the process, the shared use facilities of the launch train being designed at a size sufficient to liquefy the selected maximum quantity of light hydrocarbon gas for the process ~~either in the launch train as constructed or as constructed in the launch train~~ and expanded in the one or more optional expansion phases up to the required capacity.

13. (Currently amended) The method of claim 12 further comprising the following steps:

d) designing one or more expansion phases to the launch train to increase the capacity of the launch train as required to liquefy additional selected quantities of light hydrocarbon gas up to the selected maximum quantity of light hydrocarbon gas for the process, said expansion

phases capable of producing liquefied light hydrocarbon gas by use of the shared use facilities in the launch train as constructed ~~in the launch train or as constructed in the launch train~~ and expanded in the one or more expansion phases to the required capacity.

14. (Original) The method of claim 12 wherein the shared use facilities include acid gas removal equipment.

15. (Original) The method of claim 12 wherein the shared use facilities include mercury removal equipment.

16. (Original) The method of claim 12 wherein the shared use facilities include dehydration equipment.

17. (Original) The method of claim 12 wherein the shared use facilities include refrigerant compression equipment and cryogenic heat exchange equipment.

18. (Currently amended) A method for efficiently and economically constructing a light hydrocarbon gas liquefaction process for the liquefaction of selected quantities up to a selected maximum quantity of light hydrocarbon gas in an initial light hydrocarbon gas liquefaction launch train and one or more optional subsequent expansion phases to said initial light hydrocarbon gas liquefaction launch train to liquefy additional selected quantities of light hydrocarbon gas up to ~~[[a]]~~ the selected maximum quantity of light hydrocarbon gas for the process, the method comprising:

a) constructing a light hydrocarbon gas liquefaction launch train for the liquefaction of a selected initial quantity of light hydrocarbon gas including facilities for light hydrocarbon gas pretreatment to remove at least one of acid gases, mercury and water; ~~[[,]]~~ facilities for refrigerant compression; ~~[[,]]~~ facilities for cryogenic heat exchange; ~~[[,]]~~ access services; ~~[[,]]~~

facilities for light hydrocarbon gas liquefaction; [,.]] and facilities for liquefied light hydrocarbon gas product storage and shipping;

b) positioning at least a portion of the facilities in the launch train for shared use by the launch train and optional subsequent expansion phases;

c) constructing and sizing at least a portion of the launch train facilities for shared use for modular expansion as required by the addition of subsequent expansion phases up to the maximum capacity of the light hydrocarbon gas for the process ~~required to liquefy the maximum quantity of light hydrocarbon gas or initially constructing the portion of the launch train facilities for shared use of a size sufficient to liquefy the maximum quantity of liquefied light hydrocarbon gas for the process either in the launch train as constructed or as constructed in the launch train and expanded in the one or more optional expansion phases to the required capacity.~~

19. (Currently amended) The method of claim 18 further comprising the following steps:

d) constructing one or more expansion phases to the launch train to increase the capacity of the launch train as required to liquefy additional selected quantities of light hydrocarbon gas up to the selected maximum quantity of light hydrocarbon gas for the process, said expansion phases being capable of producing liquefied light hydrocarbon gas by use of the shared use facilities in the launch train as constructed ~~in the launch train or as constructed in the launch train~~ and expanded in the one or more expansion phases up to the required capacity.

20. (Original) The method of claim 18 wherein the shared use facilities include acid gas removal equipment.

21. (Original) The method of claim 18 wherein the shared use facilities include mercury removal equipment.

22. (Original) The method of claim 18 wherein the shared use facilities include dehydration equipment.

23. (Original) The method of claim 18 wherein the shared use facilities include refrigerant compression equipment and cryogenic heat exchange equipment.

24. (New) A light hydrocarbon gas liquefaction process for the liquefaction of selected quantities of light hydrocarbon gas, said process including a light hydrocarbon gas liquefaction launch train to liquefy an initial amount of light hydrocarbon gas and one or more optional subsequent expansion phases to said light hydrocarbon gas liquefaction launch train to liquefy additional selected quantities of light hydrocarbon gas up to a selected maximum quantity of light hydrocarbon gas for the process, the process comprising:

a) constructing the light hydrocarbon gas liquefaction launch train for the liquefaction of the initial amount of light hydrocarbon gas, the launch train including one or more shared use facilities selected from facilities for light hydrocarbon gas pretreatment to remove at least one of acid gases, mercury, and water;

b) positioning at least a portion of the shared use facilities in the launch train for shared use by the launch train and subsequent optional modular expansion phases for liquefaction of up to the selected maximum quantity of light hydrocarbon gas;

c) constructing at least a portion of the launch train facilities for shared use by modular expansion, as required by the addition of one or more subsequent optional expansion phases to the launch train, up to a maximum capacity as required to liquefy the selected maximum quantity of light hydrocarbon gas for the process, the shared use facilities of the launch train being designed at a size sufficient to liquefy the selected maximum quantity of light hydrocarbon gas in the launch train as constructed and expanded in the one or more optional expansion phases to the required capacity; and

d) processing light hydrocarbon gas in the launch train to produce liquefied light hydrocarbon gas.



25. (New) A light hydrocarbon gas liquefaction process for the liquefaction of selected quantities of light hydrocarbon gas, said process including a light hydrocarbon gas liquefaction launch train to liquefy an initial amount of light hydrocarbon gas and one or more subsequent expansion phases to said light hydrocarbon gas liquefaction launch train to liquefy additional selected quantities of light hydrocarbon gas up to a selected maximum quantity of light hydrocarbon gas for the process, the process comprising:

a) constructing the light hydrocarbon gas liquefaction launch train for the liquefaction of the selected initial quantity of light hydrocarbon gas, the launch train including one or more shared use facilities selected from facilities for light hydrocarbon gas pretreatment to remove at least one of acid gases, mercury, and water;

b) positioning at least a portion of the shared use facilities in the launch train for shared use by the launch train and subsequent modular expansion phases to said launch train;

c) constructing at least a portion of the launch train facilities for shared use by modular expansion, as required by the addition of one or more subsequent expansion phases to the launch train, up to a maximum capacity as required to liquefy the selected maximum quantity of light hydrocarbon gas for the process, the shared use facilities of the launch train being designed at a size sufficient to liquefy the selected maximum quantity of light hydrocarbon gas for the process in the launch train as constructed and expanded in the one or more expansion phases to the required capacity;

d) processing light hydrocarbon gas in the launch train to produce liquefied light hydrocarbon gas;

e) constructing one or more expansion phases to the launch train to increase the capacity of the launch train as required to liquefy additional selected quantities of light hydrocarbon gas up to the selected maximum quantity of light hydrocarbon gas for the process, said expansion phases being capable of producing liquefied light hydrocarbon gas by use of the

shared use facilities in the launch train as constructed and expanded in the one or more expansion phases to the required capacity; and;

f) processing light hydrocarbon gas in the launch train into liquefied light hydrocarbon gas using the launch train and the one or more expansion phases employing the shared use facilities.

26. (New) A method for designing an efficient and economical light hydrocarbon gas liquefaction process for the liquefaction of selected quantities of light hydrocarbon gas in an initial light hydrocarbon gas liquefaction launch train and one or more subsequent expansion phases to said light hydrocarbon gas liquefaction launch train to liquefy additional selected quantities of light hydrocarbon gas up to a selected maximum quantity of light hydrocarbon gas for the process, the method comprising:

a) designing the light hydrocarbon gas liquefaction launch train for the liquefaction of an initial amount of light hydrocarbon gas, the launch train including one or more shared use facilities selected from facilities for light hydrocarbon gas pretreatment to remove at least one of acid gases, mercury, and water;

b) designing at least a portion of the shared use facilities in the launch train for shared use by the launch train and any subsequent optional modular expansion phases to said launch train; and

c) designing at least a portion of the launch train shared use facilities for shared use by modular expansion, as required by the addition of one or more subsequent optional expansion phases to the launch train, up to the maximum capacity as required to liquefy the selected maximum quantity of light hydrocarbon gas for the process, the shared use facilities of the launch train being designed at a size sufficient to liquefy the selected maximum quantity of light hydrocarbon gas for the process in the launch train as constructed and as expanded in the one or more optional expansion phases to the required capacity.

27. (New) A method for efficiently and economically constructing a light hydrocarbon gas liquefaction process for the liquefaction of selected quantities up to a selected maximum quantity of light hydrocarbon gas in an initial light hydrocarbon gas liquefaction launch train and one or more optional subsequent expansion phases to said initial light hydrocarbon gas liquefaction launch train to liquefy additional selected quantities of light hydrocarbon gas up to the selected maximum quantity of light hydrocarbon gas for the process, the method comprising:

a) constructing a light hydrocarbon gas liquefaction launch train for the liquefaction of a selected initial quantity of light hydrocarbon gas including at least one shared use facilities selected from facilities for light hydrocarbon gas pretreatment to remove at least one of acid gases, mercury and water;

b) positioning at least a portion of the shared use facilities in the launch train for shared use by the launch train and optional subsequent expansion phases;

c) constructing and sizing at least a portion of the launch train shared use facilities for shared use by subsequent modular expansion as required by the addition of subsequent expansion phases up to the maximum capacity of the light hydrocarbon gas for the process in the launch train as constructed and expanded in the one or more optional expansion phases to the required capacity.